

# SAN TAN WEST Area Drainage Master Study Public Meeting

Burke Lokey, P.E., CFM
Project Manager

#### Agenda

Introductions

Regional Planning Study & Model

Flood Hazard Assessment

Identified Flooding Issues

Future Efforts



#### Context

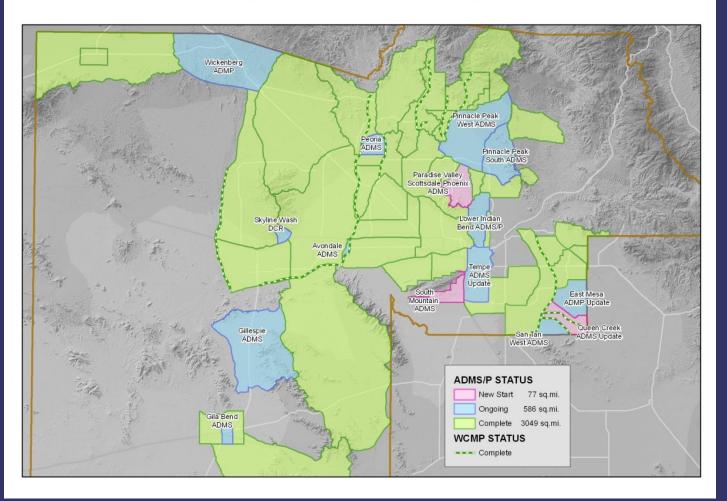
#### What is an ADMS?

- ID existing problems (July 2012 flooding)
- Develop regional hydrology models (understand and quantify known issues)
- Provide guidance for future development
- Look for possible solutions to flooding
- ID potential cost share partners (Gilbert, Queen Creek, Pinal County, and the Gila River Indian Community



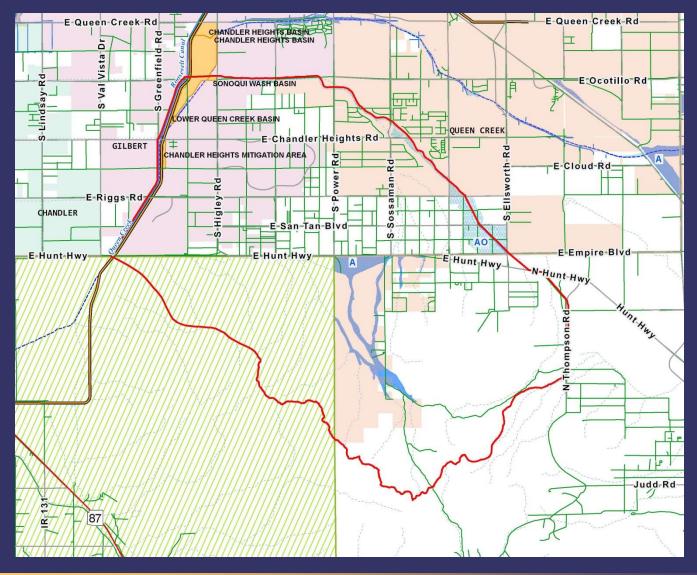
# FCD Planning Studies

#### PLANNING STUDIES FY 2013/2014





#### San Tan West ADMS





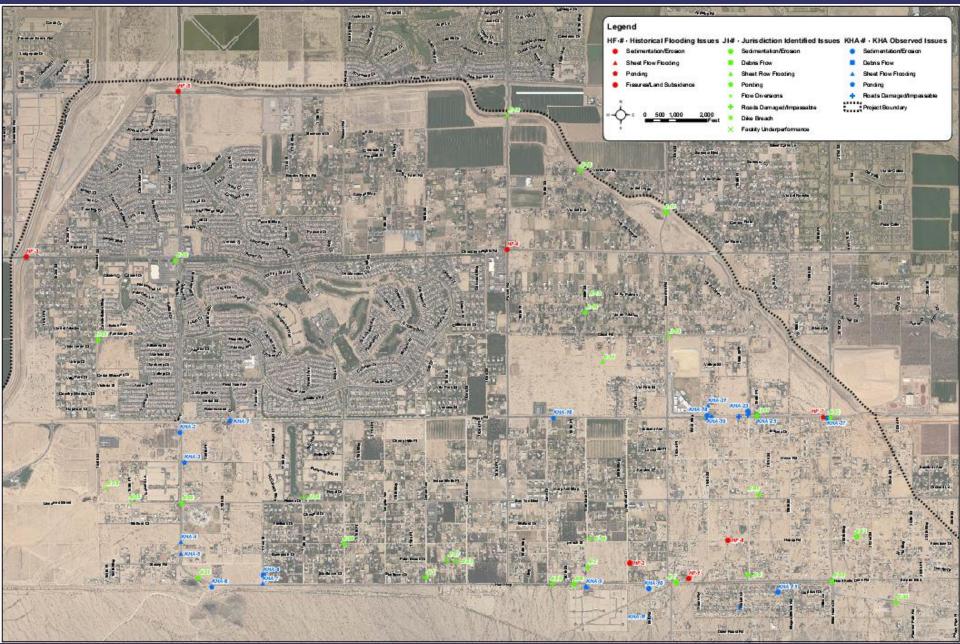
## **Study Goals**

 Develop a Regional Model (FLO-2D) and provide a comprehensive Flood Hazard Assessment

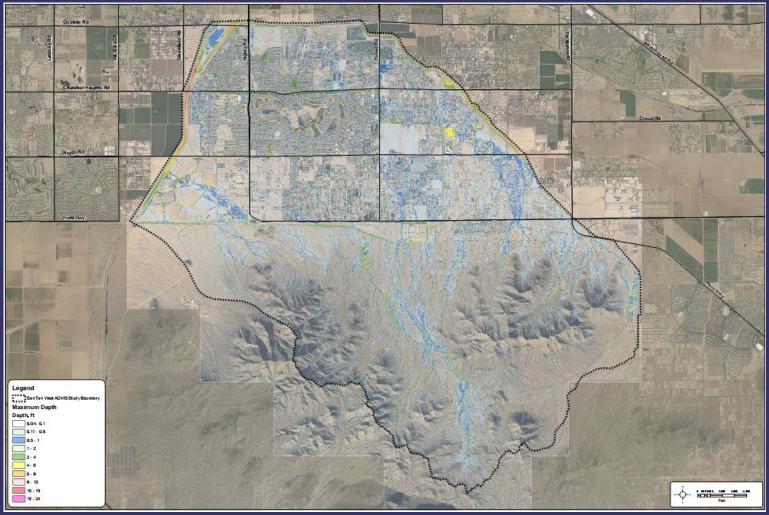
 Identify & evaluate known drainage & flooding problems – look for feasible solutions

Create new floodplain maps for the EMF ponding areas

# **ID Flooding Problems**

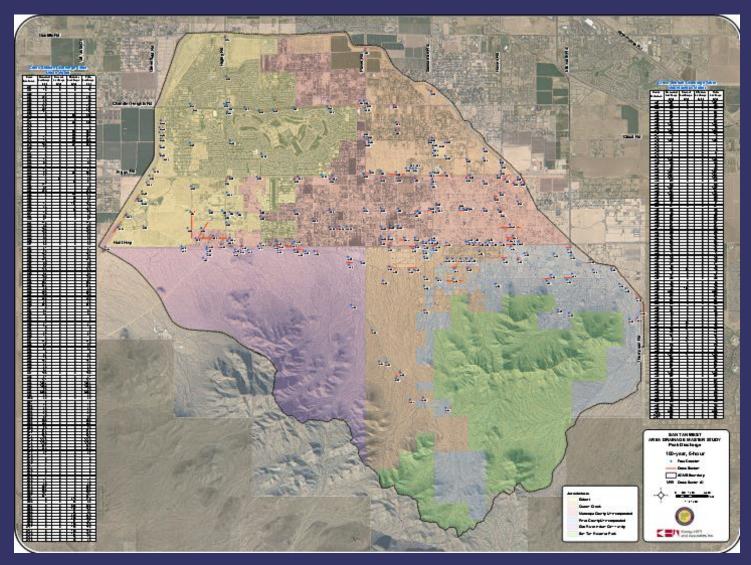


# **Regional Hydrology Model-Depths**



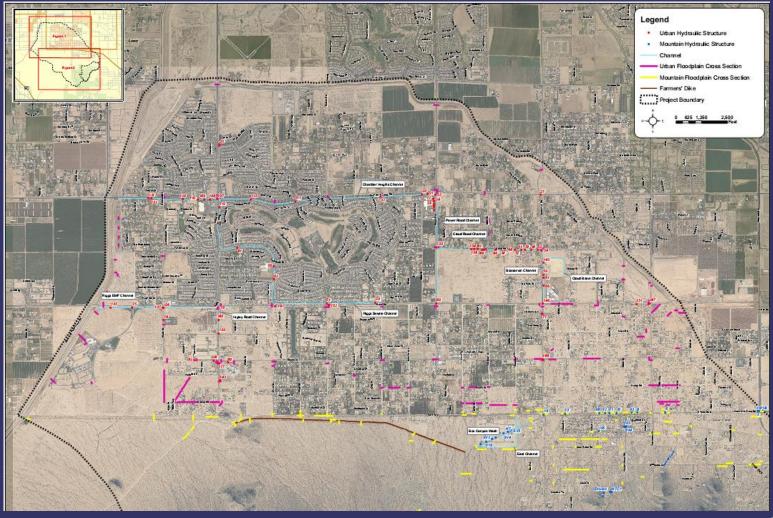


# Regional Hydrology Model-Peak Qs



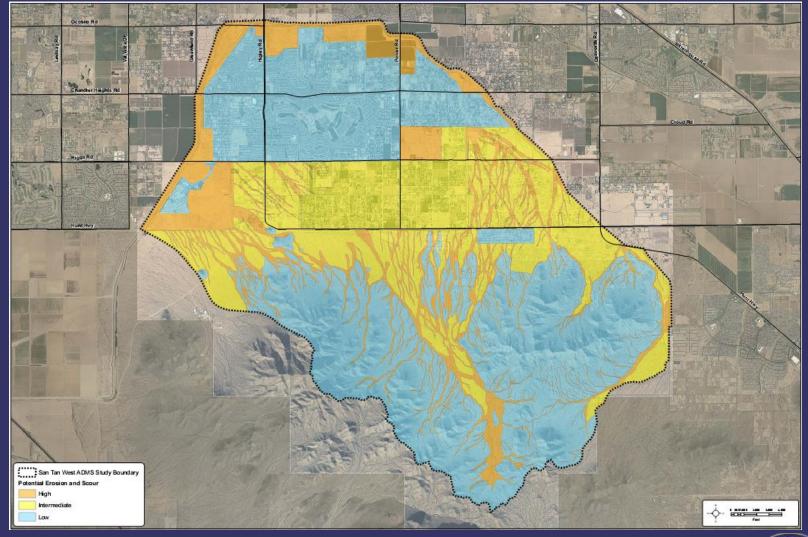


## Regional Hydrology Model-X Sections



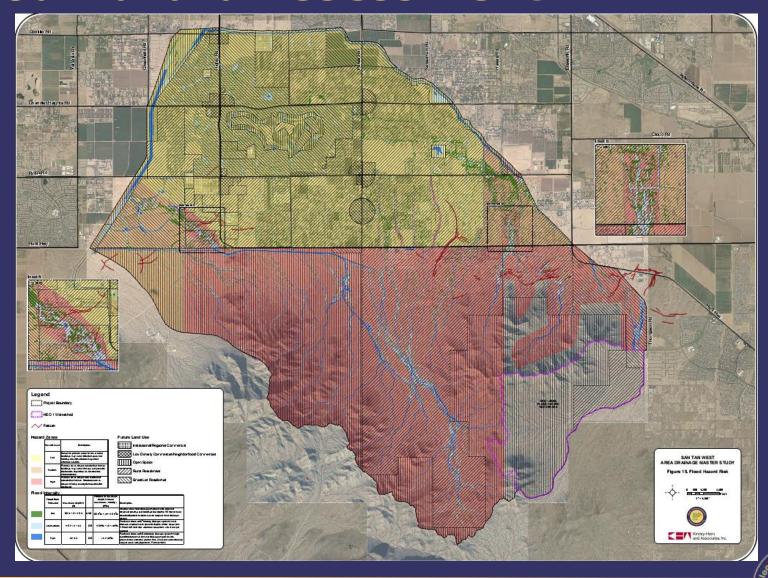


# Regional Hydrology Model-Sediment

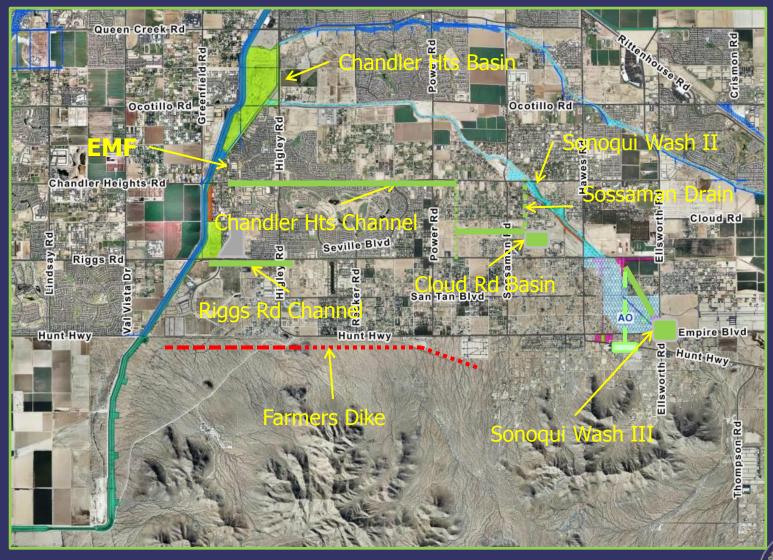




#### **Flood Hazard Assessment**

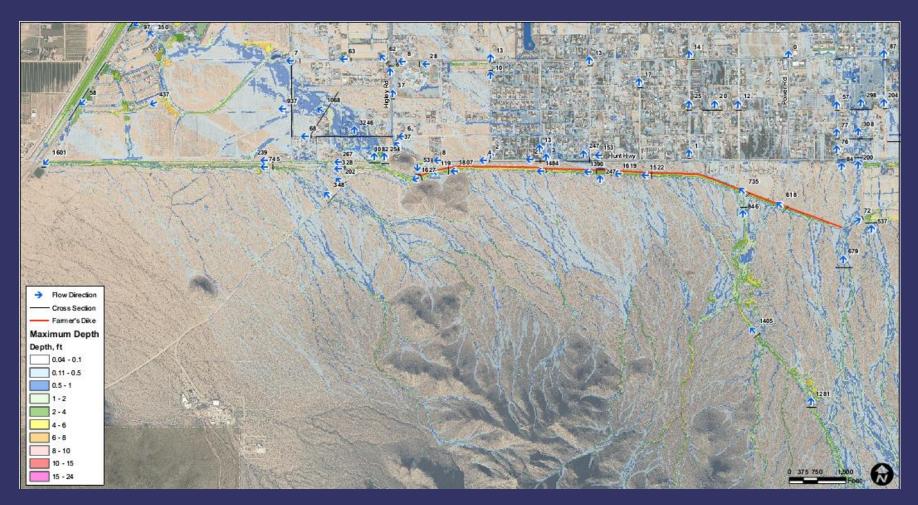


# **Existing Drainage Features**

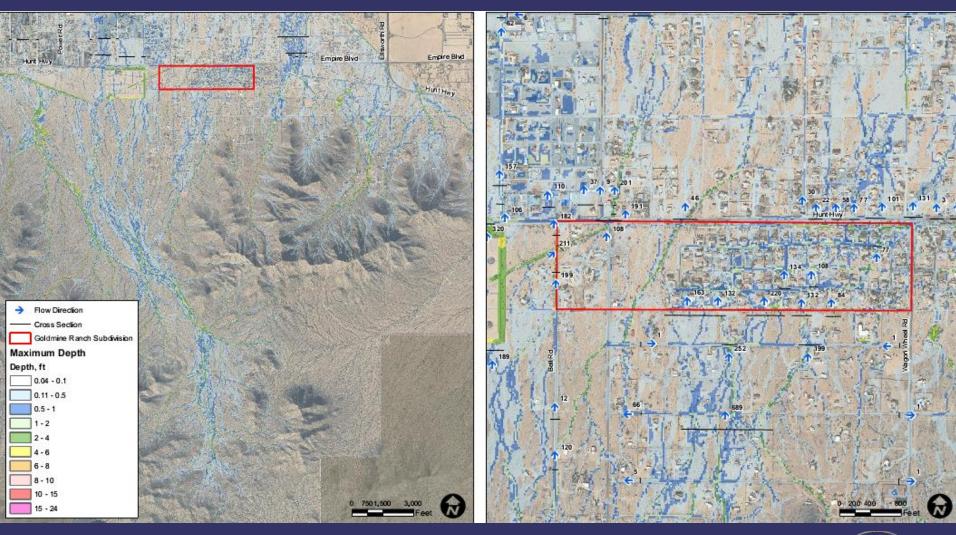


- 1. Farmer's Dike / Hunt Highway (west)
- 2. Hunt Highway (east) Power to Hawes
- 3. Higley & Coldwater
- 4. Sossaman & Riggs Rd / Cloud Road Basin
- 5. Cloud Rd / Power Rd Channels

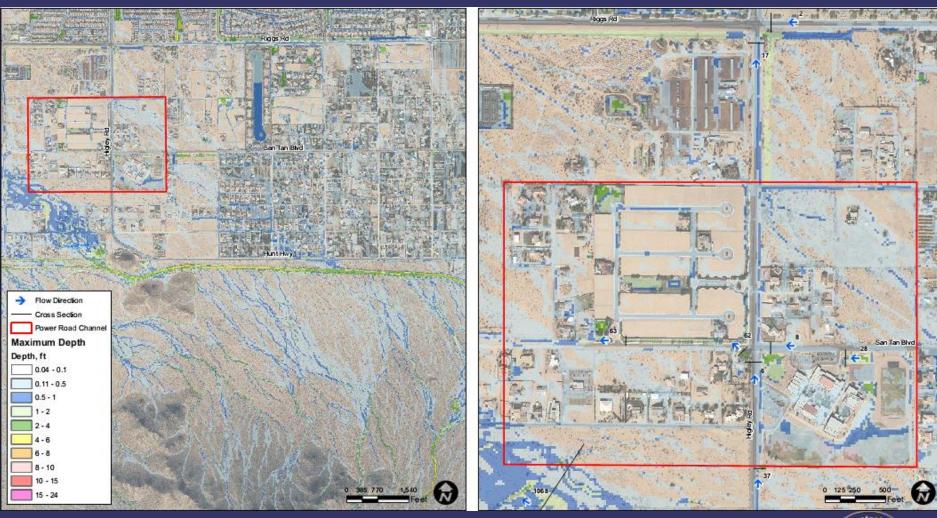




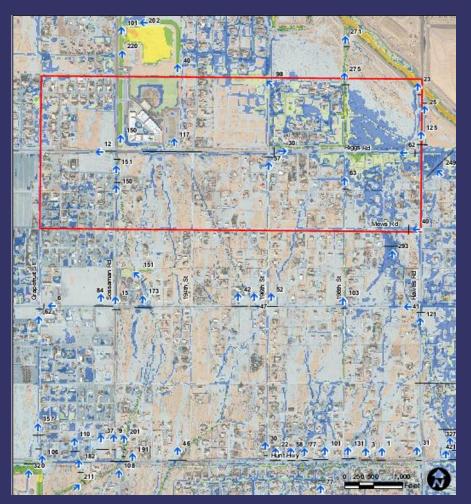






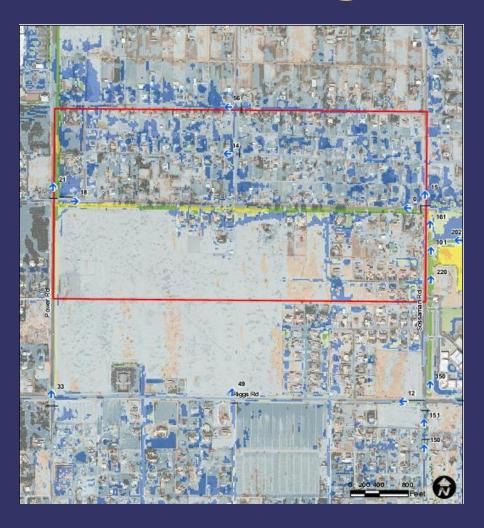














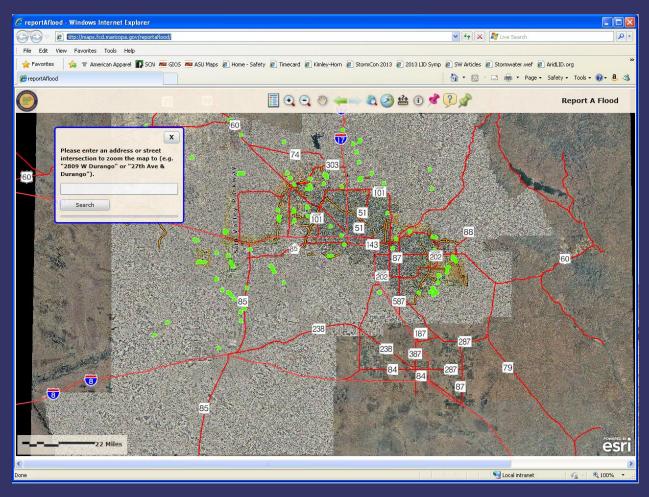


#### **Next Steps**

- Document CIP project opportunities
- Complete by Dec 2013
  - Flood Models & Reports
  - Flood Hazard Assessment
- Feasible projects will be submitted for further development



#### Report A Flood



www.reportaflood.org





# **Questions?**

Burke Lokey, P.E., CFM 602.506.0867

<u>burkelokey@mail.maricopa.gov</u>